**Issue:** Adding Group Members Using Microsoft Graph API may result in long delay before membership is effective

In order to modify group members in Azure AD from an Azure Functions application. This application uses application to authenticate to MS Graph, following permissions to the application required:

* Directory.ReadWrite.All
* Group.ReadWrite.All
* User.ReadWrite.All

With these permissions the application was able to add/remove members from Azure AD group. However, there was a delay before the added member was visible in any UI. There was also delay before the membership was actually effective. This delay could vary from a couple of minutes to several hours. Sometimes the change was not visible or effective until next day.

**Resolution**  It was just a matter of permissions. By adding the following permissions to Azure App will solve the delay issue

* GroupMember.ReadWrite.All
* TeamMember.ReadWrite.All

By adding additional permission above to Azure App, the changes started to show up in just seconds. Even in MS Teams, the membership change was visible virtually immediately. That change also reflected immediately to the guest user logged on to MS Teams. When the guest user was in the Teams, and the application removed their membership from a team, it automatically disappeared from Teams client. Even without any actions by the user.

**Alternative solution:** Using Teams Graph API to manage membership of MS Teams instead of Group Graph API (MS just released Teams Graph API recently) . Using Microsoft Graph API “groups/members” / “groups/owners”, membership changes don’t apply immediately to the team and must be synced to the Teams service for newly added users to access the team. The sync mechanism can take up to 24 hours or even longer.